

SEQUENCE LISTING

SUB
A
<110> INCYTE PHARMACEUTICALS, INC.

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HILLMAN, Jennifer L.
YUE, Henry
LAL, Preeti
BANDMAN, Olga
CORLEY, Neil C.
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LU, Dyung Aina M.
AZIMZAI, Yalda
YANG, Junming

<120> HUMAN HYDROLASE PROTEINS

<130> PF-0634 PCT

<140> To Be Assigned

<141> Herewith

<150> 09/190,937; unassigned; 60/135,519

<151> 1998-11-12; 1998-11-12; 1999-05-21

<160> 35

<170> PERL Program

<210> 1
<211> 159
<212> PRT
<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2293764CD1

<400> 1

Met Lys Ala Trp Gly Thr Val Val Val Thr Leu Ala Thr Leu Met
1 5 10 15
Val Val Thr Val Asp Ala Lys Ile Tyr Glu Leu Cys Glu Leu Ala
20 25 30
Ala Arg Leu Glu Arg Ala Gly Leu Asn Gly Tyr Lys Gly Tyr Gly
35 40 45
Val Gly Asp Trp Leu Cys Met Ala His Tyr Glu Ser Gly Phe Asp
50 55 60
Thr Ala Phe Val Asp His Asn Pro Asp Gly Ser Ser Glu Tyr Gly
65 70 75
Ile Phe Gln Leu Asn Ser Ala Trp Trp Cys Asp Asn Gly Ile Thr
80 85 90
Pro Thr Lys Asn Leu Cys His Met Asp Cys His Asp Leu Leu Asn
95 100 105
Arg His Ile Leu Asp Asp Ile Arg Cys Ala Lys Gln Ile Val Ser

110	115	120
Ser Gln Asn Gly Leu Ser Ala Trp Thr	Ser Trp Arg Leu His Cys	
125	130	135
Ser Gly His Asp Leu Ser Glu Trp Leu Lys Gly Cys Asp Met His		
140	145	150
Val Lys Ile Asp Pro Lys Ile His Pro		
155		

<210> 2
<211> 285
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 949738CD1

<400> 2			
Met Gly Thr Pro Gly Glu Gly Leu Gly Arg Cys Ser His Ala Leu			
1	5	10	15
Ile Arg Gly Val Pro Glu Ser Leu Ala Ser Gly Glu Gly Ala Gly			
20	25	30	
Ala Gly Leu Pro Ala Leu Asp Leu Ala Lys Ala Gln Arg Glu His			
35	40	45	
Gly Val Leu Gly Gly Lys Leu Arg Gln Arg Leu Gly Leu Gln Leu			
50	55	60	
Leu Glu Leu Pro Pro Glu Glu Ser Leu Pro Leu Gly Pro Leu Leu			
65	70	75	
Gly Asp Thr Ala Val Ile Gln Gly Asp Thr Ala Leu Ile Thr Arg			
80	85	90	
Pro Trp Ser Pro Ala Arg Arg Pro Glu Val Asp Gly Val Arg Lys			
95	100	105	
Ala Leu Gln Asp Leu Gly Leu Arg Ile Val Glu Ile Gly Asp Glu			
110	115	120	
Asn Ala Thr Leu Asp Gly Thr Asp Val Leu Phe Thr Gly Arg Glu			
125	130	135	
Phe Phe Val Gly Leu Ser Lys Trp Thr Asn His Arg Gly Ala Glu			
140	145	150	
Ile Val Ala Asp Thr Phe Arg Asp Phe Ala Val Ser Thr Val Pro			
155	160	165	
Val Ser Gly Pro Ser His Leu Arg Gly Leu Cys Gly Met Gly Gly			
170	175	180	
Pro Arg Thr Val Val Ala Gly Ser Ser Asp Ala Ala Gln Lys Ala			
185	190	195	
Val Arg Ala Met Ala Val Leu Thr Asp His Pro Tyr Ala Ser Leu			
200	205	210	
Thr Leu Pro Asp Asp Ala Ala Asp Cys Leu Phe Leu Arg Pro			
215	220	225	
Gly Leu Pro Gly Val Pro Pro Phe Leu Leu His Arg Gly Gly Gly			
230	235	240	
Asp Leu Pro Asn Ser Gln Glu Ala Leu Gln Lys Leu Ser Asp Val			
245	250	255	
Thr Leu Val Pro Val Ser Cys Ser Glu Leu Glu Lys Ala Gly Ala			
260	265	270	

Gly Leu Ser Ser Leu Cys Leu Val Leu Ser Thr Arg Pro His Ser
 275 280 285

<210> 3
 <211> 331
 <212> PRT
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 1297034CD1

<400> 3
 Met Trp Leu Trp Glu Asp Gln Gly Gly Leu Leu Gly Pro Phe Ser
 1 5 10 15
 Phe Leu Leu Leu Val Leu Leu Leu Val Thr Arg Ser Pro Val Asn
 20 25 30
 Ala Cys Leu Leu Thr Gly Ser Leu Phe Val Leu Leu Arg Val Phe
 35 40 45
 Ser Phe Glu Pro Val Pro Ser Cys Arg Ala Leu Gln Val Leu Lys
 50 55 60
 Pro Arg Asp Arg Ile Ser Ala Ile Ala His Arg Gly Gly Ser His
 65 70 75
 Asp Ala Pro Glu Asn Thr Leu Ala Ala Ile Arg Gln Ala Ala Lys
 80 85 90
 Asn Gly Ala Thr Gly Val Glu Leu Asp Ile Glu Phe Thr Ser Asp
 95 100 105
 Gly Ile Pro Val Leu Met His Asp Asn Thr Val Asp Arg Thr Thr
 110 115 120
 Asp Gly Thr Gly Arg Leu Cys Asp Leu Thr Phe Glu Gln Ile Arg
 125 130 135
 Lys Leu Asn Pro Ala Ala Asn His Arg Leu Arg Asn Asp Phe Pro
 140 145 150
 Asp Glu Lys Ile Pro Thr Leu Arg Glu Ala Val Ala Glu Cys Leu
 155 160 165
 Asn His Asn Leu Thr Ile Phe Phe Asp Val Lys Gly His Ala His
 170 175 180
 Lys Ala Thr Glu Ala Leu Lys Lys Met Tyr Met Glu Phe Pro Gln
 185 190 195
 Leu Tyr Asn Asn Ser Val Val Cys Ser Phe Leu Pro Glu Val Ile
 200 205 210
 Tyr Lys Met Arg Gln Thr Asp Arg Asp Val Ile Thr Ala Leu Thr
 215 220 225
 His Arg Pro Trp Ser Leu Ser His Thr Gly Asp Gly Lys Pro Arg
 230 235 240
 Tyr Asp Thr Phe Trp Lys His Phe Ile Phe Val Met Met Asp Ile
 245 250 255
 Leu Leu Asp Trp Ser Met His Asn Ile Leu Trp Tyr Leu Cys Gly
 260 265 270
 Ile Ser Ala Phe Leu Met Gln Lys Asp Phe Val Ser Pro Ala Tyr
 275 280 285
 Leu Lys Lys Trp Ser Ala Lys Gly Ile Gln Val Val Gly Trp Thr
 290 295 300
 Val Asn Thr Phe Asp Glu Lys Ser Tyr Tyr Glu Ser His Leu Gly

305	310	315
Ser Ser Tyr Ile Thr Asp Ser Met Val Glu Asp Cys Glu Pro His		
320	325	330
Phe		

<210> 4
 <211> 153
 <212> PRT
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 1553276CD1

<400> 4

Met Ala Ala Ala Leu Ala Leu Val Ala Gly Val Leu Ser Gly Ala			
1	5	10	15
Val Leu Pro Leu Trp Ser Ala Leu Pro Gln Tyr Lys Lys Lys Ile			
20	25		30
Thr Asp Arg Cys Phe His His Ser Glu Cys Tyr Ser Gly Cys Cys			
35	40		45
Leu Met Asp Leu Asp Ser Gly Gly Ala Phe Cys Ala Pro Arg Ala			
50	55		60
Arg Ile Thr Met Ile Cys Leu Pro Gln Trp Leu Glu Leu Phe Lys			
65	70		75
Gly Arg Asp Cys Ile Ile Phe Ile Tyr Glu Ala Pro Thr Pro Ser			
80	85		90
Leu Val Ser Ala His Asn Gln Gly Ser Tyr Gln His His Leu Pro			
95	100		105
Leu Pro Asp Gly Leu Asp Val His Ile Gln Gly Leu Asp Val Phe			
110	115		120
Pro Pro Val Pro Tyr Asp Leu Glu Glu Asp Ala Gly Trp Ser Leu			
125	130		135
Leu Pro Trp Gly His Arg Pro Trp Leu Pro Pro Thr Cys Ser Lys			
140	145		150
Ser Ser Ser			

<210> 5
 <211> 571
 <212> PRT
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 1702211CD1

<400> 5

Met Glu Arg Ala Val Arg Val Glu Ser Gly Val Leu Val Gly Val			
1	5	10	15
Val Cys Leu Leu Leu Ala Cys Pro Ala Thr Ala Thr Gly Pro Glu			
20	25		30
Val Ala Gln Pro Glu Val Asp Thr Thr Leu Gly Arg Val Arg Gly			
35	40		45

Arg Gln Val Gly Val Lys Gly Thr Asp Arg Leu Val Asn Val Phe
 50 55 60
 Leu Gly Ile Pro Phe Ala Gln Pro Pro Leu Gly Pro Asp Arg Phe
 65 70 75
 Ser Ala Pro His Pro Ala Gln Pro Trp Glu Gly Val Arg Asp Ala
 80 85 90
 Ser Thr Ala Pro Pro Met Cys Leu Gln Asp Val Glu Ser Met Asn
 95 100 105
 Ser Ser Arg Phe Val Leu Asn Gly Lys Gln Gln Ile Phe Ser Val
 110 115 120
 Ser Glu Asp Cys Leu Val Leu Asn Val Tyr Ser Pro Ala Glu Val
 125 130 135
 Pro Ala Gly Ser Gly Arg Pro Val Met Val Trp Val His Gly Gly
 140 145 150
 Ala Leu Ile Thr Gly Ala Ala Thr Ser Tyr Asp Gly Ser Ala Leu
 155 160 165
 Ala Ala Tyr Gly Asp Val Val Val Val Thr Val Gln Tyr Arg Leu
 170 175 180
 Gly Val Leu Gly Phe Phe Ser Thr Gly Asp Glu His Ala Pro Gly
 185 190 195
 Asn Gln Gly Phe Leu Asp Val Val Ala Ala Leu Arg Trp Val Gln
 200 205 210
 Glu Asn Ile Ala Pro Phe Gly Gly Asp Leu Asn Cys Val Thr Val
 215 220 225
 Phe Gly Gly Ser Ala Gly Gly Ser Ile Ile Ser Gly Leu Val Leu
 230 235 240
 Ser Pro Val Ala Ala Gly Leu Phe His Arg Ala Ile Thr Gln Ser
 245 250 255
 Gly Val Ile Thr Thr Pro Gly Ile Ile Asp Ser His Pro Trp Pro
 260 265 270
 Leu Ala Gln Lys Ile Ala Asn Thr Leu Ala Cys Ser Ser Ser Ser
 275 280 285
 Pro Ala Glu Met Val Gln Cys Leu Gln Gln Lys Glu Gly Glu Glu
 290 295 300
 Leu Val Leu Ser Lys Lys Leu Lys Asn Thr Ile Tyr Pro Leu Thr
 305 310 315
 Val Asp Gly Thr Val Phe Pro Lys Ser Pro Lys Glu Leu Leu Lys
 320 325 330
 Glu Lys Pro Phe His Ser Val Pro Phe Leu Met Gly Val Asn Asn
 335 340 345
 His Glu Phe Ser Trp Leu Ile Pro Arg Gly Trp Gly Leu Leu Asp
 350 355 360
 Thr Met Glu Gln Met Ser Arg Glu Asp Met Leu Ala Ile Ser Thr
 365 370 375
 Pro Val Leu Thr Ser Leu Asp Val Pro Pro Glu Met Met Pro Thr
 380 385 390
 Val Ile Asp Glu Tyr Leu Gly Ser Asn Ser Asp Ala Gln Ala Lys
 395 400 405
 Cys Gln Ala Phe Gln Glu Phe Met Gly Asp Val Phe Ile Asn Val
 410 415 420
 Pro Thr Val Ser Phe Ser Arg Tyr Leu Arg Asp Ser Gly Ser Pro
 425 430 435
 Val Phe Phe Tyr Glu Phe Gln His Arg Pro Ser Ser Phe Ala Lys
 440 445 450
 Ile Lys Pro Ala Trp Val Lys Ala Asp His Gly Ala Glu Gly Ala

455	460	465
Phe Val Phe Gly Gly Pro Phe Leu Met Asp Glu Ser Ser Arg	Leu	
470	475	480
Ala Phe Pro Glu Ala Thr Glu Glu Lys Gln Leu Ser Leu Thr		
485	490	495
Met Met Ala Gln Trp Thr His Phe Ala Arg Thr Gly Asp Pro Asn		
500	505	510
Ser Lys Ala Leu Pro Pro Trp Pro Gln Phe Asn Gln Ala Glu Gln		
515	520	525
Tyr Leu Glu Ile Asn Pro Val Pro Arg Ala Gly Gln Lys Phe Arg		
530	535	540
Glu Ala Trp Met Gln Phe Trp Ser Glu Thr Leu Pro Ser Lys Ile		
545	550	555
Gln Gln Trp His Gln Lys Gln Lys Asn Arg Lys Ala Gln Glu Asp		
560	565	570
Leu		

<210> 6
 <211> 347
 <212> PRT
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 1859618CD1

<400> 6

Met Ser Ser Trp Ser Arg Gln Arg Pro Lys Ser Pro Gly Gly Ile			
1	5	10	15
Gln Pro His Val Ser Arg Thr Leu Phe Leu Leu Leu Leu Ala			
20	25		30
Ala Ser Ala Trp Gly Val Thr Leu Ser Pro Lys Asp Cys Gln Val			
35	40		45
Phe Arg Ser Asp His Gly Ser Ser Ile Ser Cys Gln Pro Pro Ala			
50	55		60
Glu Ile Pro Gly Tyr Leu Pro Ala Asp Thr Val His Leu Ala Val			
65	70		75
Glu Phe Phe Asn Leu Thr His Leu Pro Ala Asn Leu Leu Gln Gly			
80	85		90
Ala Ser Lys Leu Gln Glu Leu His Leu Ser Ser Asn Gly Leu Glu			
95	100		105
Ser Leu Ser Pro Glu Phe Leu Arg Pro Val Pro Gln Leu Arg Val			
110	115		120
Leu Asp Leu Thr Arg Asn Ala Leu Thr Gly Leu Pro Pro Gly Leu			
125	130		135
Phe Gln Ala Ser Ala Thr Leu Asp Thr Leu Val Leu Lys Glu Asn			
140	145		150
Gln Leu Glu Val Leu Glu Val Ser Trp Leu His Gly Leu Lys Ala			
155	160		165
Leu Gly His Leu Asp Leu Ser Gly Asn Arg Leu Arg Lys Leu Pro			
170	175		180
Pro Gly Leu Leu Ala Asn Phe Thr Leu Leu Arg Thr Leu Asp Leu			
185	190		195
Gly Glu Asn Gln Leu Glu Thr Leu Pro Pro Asp Leu Leu Arg Gly			

200	205	210
Pro Leu Gln Leu Glu Arg Leu His Leu	Glu Gly Asn Lys Leu	Gln
215	220	225
Val Leu Gly Lys Asp Leu Leu Leu Pro	Gln Pro Asp Leu Arg	Tyr
230	235	240
Leu Phe Leu Asn Gly Asn Lys Leu Ala	Arg Val Ala Ala Gly	Ala
245	250	255
Phe Gln Gly Leu Arg Gln Leu Asp Met	Leu Asp Leu Ser Asn	Asn
260	265	270
Ser Leu Ala Ser Val Pro Glu Gly Leu	Trp Ala Ser Leu Gly	Gln
275	280	285
Pro Asn Trp Asp Met Arg Asp Gly Phe	Asp Ile Ser Gly Asn	Pro
290	295	300
Trp Ile Cys Asp Gln Asn Leu Ser Asp	Leu Tyr Arg Trp Leu	Gln
305	310	315
Ala Gln Lys Asp Lys Met Phe Ser Gln	Asn Asp Thr Arg Cys	Ala
320	325	330
Gly Pro Glu Ala Val Lys Gly Gln Thr	Leu Leu Ala Val Ala	Lys
335	340	345
Ser Gln		

<210> 7
 <211> 194
 <212> PRT
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 2011071CD1

<400> 7		
Met Gln Asp Ala Pro Leu Ser Cys Leu Ser Pro Thr Arg Trp Ser		
1	5	10
Ser Val Ser Ser Ala Asp Ser Thr Glu Lys Ser Ala Ser Gly Ala		
20	25	30
Gly Thr Arg Asn Leu Pro Phe Gln Phe Cys Leu Arg Gln Ala Leu		
35	40	45
Arg Met Lys Ala Ala Gly Ile Leu Thr Leu Ile Gly Cys Leu Val		
50	55	60
Thr Gly Ala Glu Ser Lys Ile Tyr Thr Arg Cys Lys Leu Ala Lys		
65	70	75
Ile Phe Ser Arg Ala Gly Leu Asp Asn Tyr Trp Gly Phe Ser Leu		
80	85	90
Gly Asn Trp Ile Cys Met Ala Tyr Tyr Glu Ser Gly Tyr Asn Thr		
95	100	105
Thr Ala Pro Thr Val Leu Asp Asp Gly Ser Ile Asp Tyr Gly Ile		
110	115	120
Phe Gln Ile Asn Thr Phe Ala Trp Cys Arg Arg Gly Lys Leu Lys		
125	130	135
Glu Asn Asn His Cys His Val Ala Cys Ser Ala Leu Ile Thr Asp		
140	145	150
Asp Leu Thr Asp Ala Ile Ile Cys Ala Arg Lys Ile Val Lys Glu		
155	160	165
Thr Gln Gly Met Asn Tyr Trp Gln Gly Trp Lys Lys His Cys Glu		

	170	175	180
Gly Arg Asp Leu Ser Glu Trp Lys Lys	Gly Cys Glu Val Ser		
185	190		

<210> 8
 <211> 361
 <212> PRT
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 2186517CD1

<400> 8			
Met Ala Trp Gln Gly Trp Pro Ala Ala Trp Gln Trp Val Ala Gly			
1	5	10	15
Cys Trp Leu Leu Leu Val Leu Val Leu Val Leu Leu Val Ser Pro			
20	25		30
Arg Gly Cys Arg Ala Arg Arg Gly Leu Arg Gly Leu Leu Met Ala			
35	40		45
His Ser Gln Arg Leu Leu Phe Arg Ile Gly Tyr Ser Leu Tyr Thr			
50	55		60
Arg Thr Trp Leu Gly Tyr Leu Phe Tyr Arg Gln Gln Leu Arg Arg			
65	70		75
Ala Arg Asn Arg Tyr Pro Lys Gly His Ser Lys Thr Gln Thr Arg			
80	85		90
Leu Phe Asn Gly Val Lys Val Leu Pro Ile Pro Val Leu Ser Asp			
95	100		105
Asn Tyr Ser Tyr Leu Ile Ile Asp Thr Gln Ala Gln Leu Ala Val			
110	115		120
Ala Val Asp Pro Ser Asp Pro Arg Ala Val Gln Ala Ser Ile Glu			
125	130		135
Lys Glu Gly Val Thr Leu Val Ala Ile Leu Cys Thr His Lys His			
140	145		150
Trp Asp His Ser Gly Gly Asn Arg Asp Leu Ser Arg Arg His Arg			
155	160		165
Asp Cys Arg Val Tyr Gly Ser Pro Gln Asp Gly Ile Pro Tyr Leu			
170	175		180
Thr His Pro Leu Cys His Gln Asp Val Val Ser Val Gly Arg Leu			
185	190		195
Gln Ile Arg Ala Leu Ala Thr Pro Gly His Thr Gln Gly His Leu			
200	205		210
Val Tyr Leu Leu Asp Gly Glu Pro Tyr Lys Gly Pro Ser Cys Leu			
215	220		225
Phe Ser Gly Asp Leu Leu Phe Leu Ser Gly Cys Gly Arg Thr Phe			
230	235		240
Glu Gly Asn Ala Glu Thr Met Leu Ser Ser Leu Asp Thr Val Leu			
245	250		255
Gly Leu Gly Asp Asp Thr Leu Leu Trp Pro Gly His Glu Tyr Ala			
260	265		270
Glu Glu Asn Leu Gly Phe Ala Gly Val Val Glu Pro Glu Asn Leu			
275	280		285
Ala Arg Glu Arg Lys Met Gln Trp Val Gln Arg Gln Arg Leu Glu			
290	295		300

Arg Lys Gly Thr Cys Pro Ser Thr Leu Gly Glu Glu Arg Ser Tyr
 305 310 315
 Asn Pro Phe Leu Arg Thr His Cys Leu Ala Leu Gln Glu Ala Leu
 320 325 330
 Gly Pro Gly Pro Gly Pro Thr Gly Asp Asp Asp Tyr Ser Arg Ala
 335 340 345
 Gln Leu Leu Glu Glu Leu Arg Arg Leu Lys Asp Met His Lys Ser
 350 355 360
 Lys

<210> 9
 <211> 306
 <212> PRT
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 2253585CD1

<400> 9
 Met Leu Arg Trp Thr Arg Ala Trp Arg Leu Pro Arg Glu Gly Leu
 1 5 10 15
 Gly Pro His Gly Pro Ser Phe Ala Arg Val Pro Val Ala Pro Ser
 20 25 30
 Ser Ser Ser Gly Gly Arg Gly Ala Glu Pro Arg Pro Leu Pro
 35 40 45
 Leu Ser Tyr Arg Leu Leu Asp Gly Glu Ala Ala Leu Pro Ala Val
 50 55 60
 Val Phe Leu His Gly Leu Phe Gly Ser Lys Thr Asn Phe Asn Ser
 65 70 75
 Ile Ala Lys Ile Leu Ala Gln Gln Thr Gly Arg Arg Val Leu Thr
 80 85 90
 Val Asp Ala Arg Asn His Gly Asp Ser Pro His Ser Pro Asp Met
 95 100 105
 Ser Tyr Glu Ile Met Ser Gln Asp Leu Gln Asp Leu Leu Pro Gln
 110 115 120
 Leu Gly Leu Val Pro Cys Val Val Val Gly His Ser Met Gly Gly
 125 130 135
 Lys Thr Ala Met Leu Leu Ala Leu Gln Arg Pro Glu Leu Val Glu
 140 145 150
 Arg Leu Ile Ala Val Asp Ile Ser Pro Val Glu Ser Thr Gly Val
 155 160 165
 Ser His Phe Ala Thr Tyr Val Ala Ala Met Arg Ala Ile Asn Ile
 170 175 180
 Ala Asp Glu Leu Pro Arg Ser Arg Ala Arg Lys Leu Ala Asp Glu
 185 190 195
 Gln Leu Ser Ser Val Ile Gln Asp Met Ala Val Arg Gln His Leu
 200 205 210
 Leu Thr Asn Leu Val Glu Val Asp Gly Arg Phe Val Trp Arg Val
 215 220 225
 Asn Leu Asp Ala Leu Thr Gln His Leu Asp Lys Ile Leu Ala Phe
 230 235 240
 Pro Gln Arg Gln Glu Ser Tyr Leu Gly Pro Thr Leu Phe Leu Leu
 245 250 255

Gly Gly Asn Ser Gln Phe Val His Pro Ser His His Pro Glu Ile
 260 265 270
 Met Arg Leu Phe Pro Arg Ala Gln Met Gln Thr Val Pro Asn Ala
 275 280 285
 Gly His Trp Ile His Ala Asp Arg Pro Gln Asp Phe Ile Ala Ala
 290 295 300
 Ile Arg Gly Phe Leu Val
 305

<210> 10
 <211> 483
 <212> PRT
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 2447520CD1

<400> 10
 Met Ser Asn Lys Leu Leu Ser Pro His Pro His Ser Val Val Leu
 1 5 10 15
 Arg Ser Glu Phe Lys Met Ala Ser Ser Pro Ala Val Leu Arg Ala
 20 25 30
 Ser Arg Leu Tyr Gln Trp Ser Leu Lys Ser Ser Ala Gln Phe Leu
 35 40 45
 Gly Ser Pro Gln Leu Arg Gln Val Gly Gln Ile Ile Arg Val Pro
 50 55 60
 Ala Arg Met Ala Ala Thr Leu Ile Leu Glu Pro Ala Gly Arg Cys
 65 70 75
 Cys Trp Asp Glu Pro Val Arg Ile Ala Val Arg Gly Leu Ala Pro
 80 85 90
 Glu Gln Pro Val Thr Leu Arg Ala Ser Leu Arg Asp Glu Lys Gly
 95 100 105
 Ala Leu Phe Gln Ala His Ala Arg Tyr Arg Ala Asp Thr Leu Gly
 110 115 120
 Glu Leu Asp Leu Glu Arg Ala Pro Ala Leu Gly Gly Ser Phe Ala
 125 130 135
 Gly Leu Glu Pro Met Gly Leu Leu Trp Ala Leu Glu Pro Glu Lys
 140 145 150
 Pro Leu Val Arg Leu Val Lys Arg Asp Val Arg Thr Pro Leu Ala
 155 160 165
 Val Glu Leu Glu Val Leu Asp Gly His Asp Pro Asp Pro Gly Arg
 170 175 180
 Leu Leu Cys Gln Thr Arg His Glu Arg Tyr Phe Leu Pro Pro Gly
 185 190 195
 Val Arg Arg Glu Pro Val Arg Val Gly Arg Val Arg Gly Thr Leu
 200 205 210
 Phe Leu Pro Pro Glu Pro Gly Pro Phe Pro Gly Ile Val Asp Met
 215 220 225
 Phe Gly Thr Gly Gly Leu Leu Glu Tyr Arg Ala Ser Leu Leu
 230 235 240
 Ala Gly Lys Gly Phe Ala Val Met Ala Leu Ala Tyr Tyr Asn Tyr
 245 250 255
 Glu Asp Leu Pro Lys Thr Met Glu Thr Leu His Leu Glu Tyr Phe

260	265	270
Glu Glu Ala Met Asn Tyr Leu Leu Ser	His Pro Glu Val Lys	Gly
275	280	285
Pro Gly Val Gly Leu Leu Gly Ile Ser	Lys Gly Gly Glu Leu	Cys
290	295	300
Leu Ser Met Ala Ser Phe Leu Lys Gly	Ile Thr Ala Ala Val	Val
305	310	315
Ile Asn Gly Ser Val Ala Asn Val Gly	Gly Thr Leu Arg Tyr	Lys
320	325	330
Gly Glu Thr Leu Pro Pro Val Gly Val	Asn Arg Asn Arg Ile	Lys
335	340	345
Val Thr Lys Asp Gly Tyr Ala Asp Ile	Val Asp Val Leu Asn	Ser
350	355	360
Pro Leu Glu Gly Pro Asp Gln Lys Ser	Phe Ile Pro Val Glu	Arg
365	370	375
Ala Glu Ser Thr Phe Leu Phe Leu Val	Gly Gln Asp Asp His	Asn
380	385	390
Trp Lys Ser Glu Phe Tyr Ala Asn Glu	Ala Cys Lys Arg Leu	Gln
395	400	405
Ala His Gly Arg Arg Lys Pro Gln Ile	Ile Cys Tyr Pro Glu	Thr
410	415	420
Gly His Tyr Ile Glu Pro Pro Tyr Phe	Pro Leu Cys Arg Ala	Ser
425	430	435
Leu His Ala Leu Val Gly Ser Pro Ile	Ile Trp Gly Gly Glu	Pro
440	445	450
Arg Ala His Ala Met Ala Gln Val Asp	Ala Trp Lys Gln Leu	Gln
455	460	465
Thr Phe Phe His Lys His Leu Gly Gly	His Glu Gly Thr Ile	Pro
470	475	480
Ser Lys Val		

<210> 11
 <211> 144
 <212> PRT
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 2481345CD1

<400> 11

Met Leu Leu Leu Trp Val Ser Val Val Ala Ala Leu Ala Leu Ala			
1	5	10	15
Val Leu Ala Pro Gly Ala Gly Glu Gln Arg Arg Arg Ala Ala Lys			
20		25	30
Ala Pro Asn Val Val Leu Val Val Ser Asp Ser Phe Asp Gly Arg			
35		40	45
Leu Thr Phe His Pro Gly Ser Gln Val Val Lys Leu Pro Phe Ile			
50		55	60
Asn Phe Met Lys Thr Arg Gly Thr Ser Phe Leu Asn Ala Tyr Thr			
65		70	75
Asn Ser Pro Ile Cys Cys Pro Ser Arg Ala Ala Met Trp Ser Gly			
80		85	90
Leu Phe Thr His Leu Thr Glu Ser Trp Asn Asn Phe Lys Gly Leu			

95	100	105
Asp Pro Asn Tyr	Thr Thr Trp Met Asp	Val Met Glu Arg His
110	115	120
Tyr Arg Thr Gln Lys	Phe Gly Lys Leu	Asp Tyr Thr Ser Gly
125	130	135
His Ser Ile Ser Asn Arg Val Glu Ala		
140		

<210> 12
 <211> 180
 <212> PRT
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 2484020CD1

<400> 12			
Met Met Lys Phe Lys Pro Asn Gln Thr Arg Thr Tyr Asp Arg Glu			
1	5	10	15
Gly Phe Lys Lys Arg Ala Ala Cys Leu Cys Phe Arg Ser Glu Gln			
20	25	30	
Glu Asp Glu Val Leu Leu Val Ser Ser Arg Tyr Pro Asp Gln			
35	40	45	
Trp Ile Val Pro Gly Gly Met Glu Pro Glu Glu Glu Pro Gly			
50	55	60	
Gly Ala Ala Val Arg Glu Val Tyr Glu Glu Ala Gly Val Lys Gly			
65	70	75	
Lys Leu Gly Arg Leu Leu Gly Ile Phe Glu Asn Gln Asp Arg Lys			
80	85	90	
His Arg Thr Tyr Val Tyr Val Leu Thr Val Thr Glu Ile Leu Glu			
95	100	105	
Asp Trp Glu Asp Ser Val Asn Ile Gly Arg Lys Arg Glu Trp Phe			
110	115	120	
Lys Val Glu Asp Ala Ile Lys Val Leu Gln Cys His Lys Pro Val			
125	130	135	
His Ala Glu Tyr Leu Glu Lys Leu Lys Leu Gly Cys Ser Pro Ala			
140	145	150	
Asn Gly Asn Ser Thr Val Pro Ser Leu Pro Asp Asn Asn Ala Leu			
155	160	165	
Phe Val Thr Ala Ala Gln Thr Ser Gly Leu Pro Ser Ser Val Arg			
170	175	180	

<210> 13
 <211> 375
 <212> PRT
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 2862528CD1

<400> 13

Met Ala Arg Pro Gly	Leu Ile His Ser Ala Pro Gly	Leu Pro Asp
1 5	10	15
Thr Cys Ala Leu Leu Gln Pro Pro Ala Ala Ser Ala Ala Ala		
20 25		30
Pro Ser Met Ser Gly Pro Asp Val Glu Thr Pro Ser Ala Ile Gln		
35 40		45
Ile Cys Arg Ile Met Arg Pro Asp Asp Ala Asn Val Ala Gly Asn		
50 55		60
Val His Gly Gly Thr Ile Leu Lys Met Ile Glu Glu Ala Gly Ala		
65 70		75
Ile Ile Ser Thr Arg His Cys Asn Ser Gln Asn Gly Glu Arg Cys		
80 85		90
Val Ala Ala Leu Ala Arg Val Glu Arg Thr Asp Phe Leu Ser Pro		
95 100		105
Met Cys Ile Gly Glu Val Ala His Val Ser Ala Glu Ile Thr Tyr		
110 115		120
Thr Ser Lys His Ser Val Glu Val Gln Val Asn Val Met Ser Glu		
125 130		135
Asn Ile Leu Thr Gly Ala Lys Lys Leu Thr Asn Lys Ala Thr Leu		
140 145		150
Trp Tyr Val Pro Leu Ser Leu Lys Asn Val Asp Lys Val Leu Glu		
155 160		165
Val Pro Pro Val Val Tyr Ser Arg Gln Glu Gln Glu Glu Gly		
170 175		180
Arg Lys Arg Tyr Glu Ala Gln Lys Leu Glu Arg Met Glu Thr Lys		
185 190		195
Trp Arg Asn Gly Asp Ile Val Gln Pro Val Leu Asn Pro Gly Val		
200 205		210
Thr Met Lys Leu Met Asp Glu Val Ala Gly Ile Val Ala Ala Arg		
215 220		225
His Cys Lys Thr Asn Ile Val Thr Ala Ser Val Asp Ala Ile Asn		
230 235		240
Phe His Asp Lys Ile Arg Lys Gly Cys Val Ile Thr Ile Ser Gly		
245 250		255
Arg Met Thr Phe Thr Ser Asn Lys Ser Met Glu Ile Glu Val Leu		
260 265		270
Val Asp Ala Asp Pro Val Val Asp Ser Ser Gln Lys Arg Tyr Arg		
275 280		285
Ala Ala Ser Ala Phe Phe Thr Tyr Val Ser Leu Ser Gln Glu Gly		
290 295		300
Arg Ser Leu Pro Val Pro Gln Leu Val Pro Glu Thr Glu Asp Glu		
305 310		315
Lys Lys Arg Phe Glu Glu Gly Lys Gly Arg Tyr Leu Gln Met Lys		
320 325		330
Ala Asn Asp Arg Ala Thr Arg Ser Leu Ser Pro Arg Leu Pro Pro		
335 340		345
Pro Ala Thr Gly Ala Ser Ser Ser His Gly Asn Gly Pro Ser Val		
350 355		360
Gln Ser Leu Arg Ser Ser Pro Leu Gly Gln Lys Pro Asn Ser His		
365 370		375

<210> 14

<211> 637

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 3200650CD1

<400> 14

Met	Thr	Thr	Trp	Ser	Leu	Arg	Arg	Arg	Pro	Ala	Arg	Thr	Leu	Gly	
1				5					10						15
Leu	Leu	Leu	Leu	Val	Val	Leu	Gly	Phe	Leu	Val	Leu	Arg	Arg	Leu	
					20					25					30
Asp	Trp	Ser	Thr	Leu	Val	Pro	Leu	Arg	Leu	Arg	His	Arg	Gln	Leu	
					35				40						45
Gly	Leu	Gln	Ala	Lys	Gly	Trp	Asn	Phe	Met	Leu	Glu	Asp	Ser	Thr	
					50				55						60
Phe	Trp	Ile	Phe	Gly	Gly	Ser	Ile	His	Tyr	Phe	Arg	Val	Pro	Arg	
					65				70						75
Glu	Tyr	Trp	Arg	Asp	Arg	Leu	Leu	Lys	Met	Lys	Ala	Cys	Gly	Leu	
					80				85						90
Asn	Thr	Leu	Thr	Thr	Tyr	Val	Pro	Trp	Asn	Leu	His	Glu	Pro	Glu	
					95				100						105
Arg	Gly	Lys	Phe	Asp	Phe	Leu	Trp	Glu	Thr	Trp	Thr	Leu	Lys	Ala	
					110				115						120
Phe	Val	Leu	Met	Ala	Ala	Glu	Ile	Gly	Leu	Trp	Val	Ile	Leu	Arg	
					125				130						135
Pro	Gly	Pro	Tyr	Ile	Cys	Ser	Glu	Met	Asp	Leu	Gly	Gly	Leu	Pro	
					140				145						150
Ser	Trp	Leu	Leu	Gln	Asp	Pro	Gly	Met	Arg	Leu	Arg	Thr	Thr	Tyr	
					155				160						165
Lys	Gly	Phe	Thr	Glu	Ala	Val	Asp	Leu	Tyr	Phe	Asp	His	Leu	Met	
					170				175						180
Ser	Arg	Val	Val	Pro	Leu	Gln	Tyr	Lys	Arg	Gly	Gly	Pro	Ile	Ile	
					185				190						195
Ala	Val	Gln	Val	Glu	Asn	Glu	Tyr	Gly	Ser	Tyr	Asn	Lys	Asp	Pro	
					200				205						210
Ala	Tyr	Met	Pro	Tyr	Val	Lys	Lys	Ala	Leu	Glu	Asp	Arg	Gly	Ile	
					215				220						225
Val	Glu	Leu	Leu	Leu	Thr	Ser	Asp	Asn	Lys	Asp	Gly	Leu	Ser	Lys	
					230				235						240
Gly	Ile	Val	Gln	Gly	Val	Leu	Ala	Thr	Ile	Asn	Leu	Gln	Ser	Thr	
					245				250						255
His	Glu	Leu	Gln	Leu	Leu	Thr	Thr	Phe	Leu	Phe	Asn	Val	Gln	Gly	
					260				265						270
Thr	Gln	Pro	Lys	Met	Val	Met	Glu	Tyr	Trp	Thr	Gly	Trp	Phe	Asp	
					275				280						285
Ser	Trp	Gly	Gly	Pro	His	Asn	Ile	Leu	Asp	Ser	Ser	Glu	Val	Leu	
					290				295						300
Lys	Thr	Val	Ser	Ala	Ile	Val	Asp	Ala	Gly	Ser	Ser	Ile	Asn	Leu	
					305				310						315
Tyr	Met	Phe	His	Gly	Gly	Thr	Asn	Phe	Gly	Phe	Met	Asn	Gly	Ala	
					320				325						330
Met	His	Phe	His	Asp	Tyr	Lys	Ser	Asp	Val	Thr	Ser	Tyr	Asp	Tyr	
					335				340						345
Asp	Ala	Val	Leu	Thr	Glu	Ala	Gly	Asp	Tyr	Thr	Ala	Lys	Tyr	Met	

	350	355	360
Lys Leu Arg Asp	Phe Phe Gly Ser Ile Ser Gly Ile Pro Leu Pro		
365	370	375	
Pro Pro Pro Asp	Leu Leu Pro Lys Met Pro Tyr Glu Pro Leu Thr		
380	385	390	
Pro Val Leu Tyr	Leu Ser Leu Trp Asp Ala Leu Lys Tyr Leu Gly		
395	400	405	
Glu Pro Ile Lys	Ser Glu Lys Pro Ile Asn Met Glu Asn Leu Pro		
410	415	420	
Val Asn Gly Gly	Asn Gly Gln Ser Phe Gly Tyr Ile Leu Tyr Glu		
425	430	435	
Thr Ser Ile Thr	Ser Ser Gly Ile Leu Ser Gly His Val His Asp		
440	445	450	
Arg Gly Gln Val	Phe Val Asn Thr Val Ser Ile Gly Phe Leu Asp		
455	460	465	
Tyr Lys Thr Thr	Lys Ile Ala Val Pro Leu Ile Gln Gly Tyr Thr		
470	475	480	
Val Leu Arg Ile	Leu Val Glu Asn Arg Gly Arg Val Asn Tyr Gly		
485	490	495	
Glu Asn Ile Asp	Asp Gln Arg Lys Gly Leu Ile Gly Asn Leu Tyr		
500	505	510	
Leu Asn Asp Ser	Pro Leu Lys Asn Phe Arg Ile Tyr Ser Leu Asp		
515	520	525	
Met Lys Lys Ser	Phe Phe Gln Arg Phe Gly Leu Asp Lys Trp Ser		
530	535	540	
Ser Leu Pro Glu	Thr Pro Thr Leu Pro Ala Phe Phe Leu Gly Ser		
545	550	555	
Leu Ser Ile Ser	Ser Thr Pro Cys Asp Thr Phe Leu Lys Leu Glu		
560	565	570	
Gly Trp Glu Lys	Gly Val Val Phe Ile Asn Gly Gln Asn Leu Gly		
575	580	585	
Arg Tyr Trp Asn	Ile Gly Pro Gln Lys Thr Leu Tyr Leu Pro Gly		
590	595	600	
Pro Trp Leu Ser	Ser Gly Ile Asn Gln Val Ile Val Phe Glu Glu		
605	610	615	
Thr Met Ala Gly	Pro Ala Leu Gln Phe Thr Glu Thr Pro His Leu		
620	625	630	
Gly Arg Asn Gln	Tyr Ile Lys		
	635		

<210> 15
 <211> 314
 <212> PRT
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 4107621CD1

<400> 15
 Met Ser Glu Asn Ala Ala Pro Gly Leu Ile Ser Glu Leu Lys Leu
 1 5 10 15
 Ala Val Pro Trp Gly His Ile Ala Ala Lys Ala Trp Gly Ser Leu
 20 25 30

Gln	Gly	Pro	Pro	Val	Leu	Cys	Leu	His	Gly	Trp	Leu	Asp	Asn	Ala
35									40					45
Ser	Ser	Phe	Asp	Arg	Leu	Ile	Pro	Leu	Leu	Pro	Gln	Asp	Phe	Tyr
		50							55					60
Tyr	Val	Ala	Met	Asp	Phe	Gly	Gly	His	Gly	Leu	Ser	Ser	His	Tyr
		65							70					75
Ser	Pro	Gly	Val	Pro	Tyr	Tyr	Leu	Gln	Thr	Phe	Val	Ser	Glu	Ile
		80							85					90
Arg	Arg	Val	Val	Ala	Ala	Leu	Lys	Trp	Asn	Arg	Phe	Ser	Ile	Leu
		95							100					105
Gly	His	Ser	Phe	Gly	Gly	Val	Val	Gly	Gly	Met	Phe	Phe	Cys	Thr
		110							115					120
Phe	Pro	Glu	Met	Val	Asp	Lys	Leu	Ile	Leu	Leu	Asp	Thr	Pro	Leu
		125							130					135
Phe	Leu	Leu	Glu	Ser	Asp	Glu	Met	Glu	Asn	Leu	Leu	Thr	Tyr	Lys
		140							145					150
Arg	Arg	Ala	Ile	Glu	His	Val	Leu	Gln	Val	Glu	Ala	Ser	Gln	Glu
		155							160					165
Pro	Ser	His	Val	Phe	Ser	Leu	Lys	Gln	Leu	Leu	Gln	Arg	Leu	Leu
		170							175					180
Lys	Ser	Asn	Ser	His	Leu	Ser	Glu	Glu	Cys	Gly	Glu	Leu	Leu	Leu
		185							190					195
Gln	Arg	Gly	Thr	Thr	Lys	Val	Ala	Thr	Gly	Leu	Val	Leu	Asn	Arg
		200							205					210
Asp	Gln	Arg	Leu	Ala	Trp	Ala	Glu	Asn	Ser	Ile	Asp	Phe	Ile	Ser
		215							220					225
Arg	Glu	Leu	Cys	Ala	His	Ser	Ile	Arg	Lys	Leu	Gln	Ala	His	Val
		230							235					240
Leu	Leu	Ile	Lys	Ala	Val	His	Gly	Tyr	Phe	Asp	Ser	Arg	Gln	Asn
		245							250					255
Tyr	Ser	Glu	Lys	Glu	Ser	Leu	Ser	Phe	Met	Ile	Asp	Thr	Met	Lys
		260							265					270
Ser	Thr	Leu	Lys	Glu	Gln	Phe	Gln	Phe	Val	Glu	Val	Pro	Gly	Asn
		275							280					285
His	Cys	Val	His	Met	Ser	Glu	Pro	Gln	His	Val	Ala	Ser	Ile	Ile
		290							295					300
Ser	Ser	Phe	Leu	Gln	Cys	Thr	His	Met	Leu	Pro	Ala	Gln	Leu	
		305							310					

<210> 16
<211> 448
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 4661133CD1

<400> 16
Met Arg Arg Ala Ala Leu Arg Leu Cys Ala Leu Gly Lys Gly Gln
1 5 10 15
Leu Thr Pro Gly Arg Gly Leu Thr Gln Gly Pro Gln Asn Pro Lys
20 25 30
Lys Gln Gly Ile Phe His Ile His Glu Ala Cys Ser Ser Ile His

35	40	45
Val Asn His Val Arg Asp Lys Leu Arg Glu Ile Val Gly Ala Ser		
50	55	60
Thr Asn Trp Arg Asp His Val Lys Ala Met Glu Glu Arg Lys Leu		
65	70	75
Leu His Ser Phe Leu Ala Lys Ser Gln Asp Gly Leu Pro Pro Arg		
80	85	90
Arg Met Lys Asp Ser Tyr Ile Glu Val Leu Leu Pro Leu Gly Ser		
95	100	105
Glu Pro Glu Leu Arg Glu Lys Tyr Leu Thr Val Gln Asn Thr Val		
110	115	120
Arg Phe Gly Arg Ile Leu Glu Asp Leu Asp Ser Leu Gly Val Leu		
125	130	135
Ile Cys Tyr Met His Asn Lys Ile His Ser Ala Lys Met Ser Pro		
140	145	150
Leu Ser Ile Val Thr Ala Leu Val Asp Lys Ile Asp Met Cys Lys		
155	160	165
Lys Ser Leu Ser Pro Glu Gln Asp Ile Lys Phe Ser Gly His Val		
170	175	180
Ser Trp Val Gly Lys Thr Ser Met Glu Val Lys Met Gln Met Phe		
185	190	195
Gln Leu His Gly Asp Glu Phe Cys Pro Val Leu Asp Ala Thr Phe		
200	205	210
Val Met Val Ala Arg Asp Ser Glu Asn Lys Gly Pro Ala Phe Val		
215	220	225
Asn Pro Leu Ile Pro Glu Ser Pro Glu Glu Glu Leu Phe Arg		
230	235	240
Gln Gly Glu Leu Asn Lys Gly Arg Arg Ile Ala Phe Ser Ser Thr		
245	250	255
Ser Leu Leu Lys Met Ala Pro Ser Ala Glu Glu Arg Thr Thr Ile		
260	265	270
His Glu Met Phe Leu Ser Thr Leu Asp Pro Lys Thr Ile Ser Phe		
275	280	285
Arg Ser Arg Val Leu Pro Ser Asn Ala Val Trp Met Glu Asn Ser		
290	295	300
Lys Leu Lys Ser Leu Glu Ile Cys His Pro Gln Glu Arg Asn Ile		
305	310	315
Phe Asn Arg Ile Phe Gly Gly Phe Leu Met Arg Lys Ala Tyr Glu		
320	325	330
Leu Ala Trp Ala Thr Ala Cys Ser Phe Gly Gly Ser Arg Pro Phe		
335	340	345
Val Val Ala Val Asp Asp Ile Met Phe Gln Lys Pro Val Glu Val		
350	355	360
Gly Ser Leu Leu Phe Leu Ser Ser Gln Val Cys Phe Thr Gln Asn		
365	370	375
Asn Tyr Ile Gln Val Arg Val His Ser Glu Val Ala Ser Leu Gln		
380	385	390
Glu Lys Gln His Thr Thr Thr Asn Val Phe His Phe Thr Phe Met		
395	400	405
Ser Glu Lys Glu Val Pro Leu Val Phe Pro Lys Thr Tyr Gly Glu		
410	415	420
Ser Met Leu Tyr Leu Asp Gly Gln Arg His Phe Asn Ser Met Ser		
425	430	435
Gly Pro Ala Thr Leu Arg Lys Asp Tyr Leu Val Glu Pro		
440	445	

<210> 17
<211> 723
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2293764CB1

<400> 17
gcagcaacag agttgcaggt gtaaaataac ggaaaggcgg gatgcgtggc taaattgctc 60
tgcgtgcaca aagagtagga gagccagag ttccagaatg cccctaattc cgaacaccac 120
agggtgagtc tggagcaagt cacctgggg ggcttacagg tgccataatg aaggcctggg 180
gcactgtggt agtgacccctg gccacgctga tgggtgtcac tgtggatgcc aagatctatg 240
aactctgcga gctggcggca agactggaga gagcagggct gaacggctac aagggctacg 300
gcgttggaga ctggctgtgc atggctcatt atgagagtgg ctttgacacc gccttcgtgg 360
accacaatcc tcatggcage agtgaatatg gcattttcca actgaattct gcctgggtgg 420
gtgacaatgg cattacaccc accaagaacc tctgccacat ggattgtcat gacctgctca 480
atcgccatat tctggatgac atcaggtgtc ccaagcagat tgtgtcctca cagaatgggc 540
tttctgcctg gacttctgg aggctacact gttctggcca tgatttatct gaatggctca 600
aggggtgtga tatgcatgtg aaaattgatc caaaaattca tccatgactc agattcgaag 660
agacagattt tatcttcctt tcatttcttc atattgtcac ttaataaaag gatggtaactc 720
gtc
723

<210> 18
<211> 1228
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 949738CB1

<400> 18
ccggagccg ccagaccgtc gcgccctgc cccatcgtag tatatgagct cgcctacaca 60
aggacccccc ctaaaagcca gagctcccgag tccccgaggg ttgaagacgg ggactccctt 120
ctccaccaac tctgtcctcg ggggggtggg gccccagccg agatcacagc ggcacaggag 180
tgggggtggc cgctggagac aggtgaagaa acaagaaaac taagaaatcc gagcggttgg 240
agggggagtc tigtggatg ggatggggac gcccggggag gggctgggccc gctgctccca 300
tgcctgtatc cggggagtc cagagacgc ggcgtcgccc gaaggtgcgg gggctggcct 360
tcccgctctg gatctggcca aagctcaaag ggagcacggg gtgtggag gtaaactgag 420
gcaacgactg gggctacagc tgctagaact gccacctgag gagtcatgac cgctgggacc 480
gtgcttggc gacacggccg tgatccaagg ggacacggcc ctaatcacgc ggccctggag 540
ccccgctcgt aggccagagg tcgatggagt cgcacaaagcc ctgcaagacc tggggctccg 600
aattgtggaa ataggagacg agaacgcgac gctggatggc actgacgttc tcttcacccgg 660
ccgggagttt ttcgtaggcc tctccaaatg gaccaatcac cgaggagctg agatcgtggc 720
ggacacgttc cgggacttcg ccgtctccac tggccagtc tgggtccct cccacctgcg 780
cggtctctgc ggcattgggg gacctcgacat tgggtggca ggcacggcg acgctgccc 840
aaaggctgtc cgggcaatgg cagtgcgtac agatcacccca tatgcctccc tgaccctccc 900
agatgacgca gctgctgact gtctttccct tcgtcctggg ttgcctgtg tgcccccttt 960
cctcctgcac cgtggaggtg gggatctgcc caacagccag gaggcactgc agaagctctc 1020
tgatgtcacc ctggtaacctg tgctctgctc agaactggag aaggccggcg cgggctcag 1080
ctccctctgc ttgggtgctca gcacacgcccc ccacagctga gggcctggcc ttggggtaact 1140

gctggccagg ggtaggatag tataggaagt agaagggaa ggagggtag atagagaatg 1200
 ctgaataggc agtagttggg agagaggg 1228

<210> 19
 <211> 2155
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 1297034CB1

<400> 19
 cggtcgagc tcgcttctcg ttctactgcc ccaggagccc ggccgggtccg ggactcccg 60
 ccgtgcgggt gcggggcgccg gcatgtggct gtgggaggac cagggccggcc tcctgggccc 120
 tttctccttc ctgctgctag tgctgctgct ggtgacgcgg agcccggtca atgcctgcct 180
 cctcaccggc agcctcttcg ttctactgctc cgtcttcagc tttgagccgg tgccctcttg 240
 cagggccctg caggtgctca agccccggga ccgcatttct gccatcgccc accgtggcgg 300
 cagccacgac ggcggcggaga acacgctggc ggccattcgg caggcagcta agaatggagc 360
 aacaggcgtg gagttggaca ttgagtttac ttctgacggg attcctgtct taatgcacga 420
 taacacagta gataggacga ctgatgggac tggcgattt gttgatttga catttgaaca 480
 aatttaggaag ctgaatcctg cagcaaaccac cagactcagg aatgatttcc ctgatgaaaa 540
 gatccctacc ctaaggaaag ctgttgcaga gtgcctaaac cataacctca caatcttctt 600
 ttagtgc当地 ggcattgc当地 acaaggctac tgaggctctt aagaaaaatgt atatggaaatt 660
 tcctcaactg tataataata gtgtggctcg ttcttcttg ccagaagttt tctacaagat 720
 gagacaaaaca gatcgggatg taataaacagc attaactcac agaccttggc gcctaagcc 780
 tacaggagat gggaaaaccac gctatgatac tttctggaaa cattttatata ttgttatgtat 840
 ggacattttgc当地 ctcgatttgc当地 gcatgc当地 tatcttgc当地 tacctgtgtg gaatttcagc 900
 tttccctatg caaaaggatt ttgtatcccc ggcctacttg aagaagtggt cagctaaagg 960
 aatccagggtt gttgggttgc当地 ctgttaatac ctttgc当地 aagagttaactt acgaatccca 1020
 tcttgggtcc agctatatac ctgacagcat ggttagaagac tgcaacccctc acttcttagac 1080
 tttcacgggtg ggacgaaaacg ggttcagaaa ctggccagggg cctcatacag ggatatcaaa 1140
 ataccctttgc当地 tgcttagccca ggccctgggg aatcaggttgc当地 ctcacacaaa tgcaatagtt 1200
 ggtcaactgca tttttacctg aaccaaaagct aaaccgggtt tgccaccat gcaccatggc 1260
 atgccagagt tcaacactgt tgctcttgc当地 aatctgggtc tgaaaaaaacg cacaagagcc 1320
 cctgcccctgc当地 cctagctgag gcacacaggag agaccctgtc aggataagca cagattgaat 1380
 tgtacaattt gcagatgc当地 atgttaatgc当地 atggacatgc当地 catgataactt cagatgttgc当地 1440
 attttaaaac ttgccacact tatttcaaat attttgtactc agctatgttgc当地 acatgttactg 1500
 tagacatcaa acttggcc当地 atactaataa aatttattaaa aggagcacta aaggaaaact 1560
 gtgtgccaag catcatatcc taaggcatac ggaatttggg gaagccacca tgcaatccag 1620
 tgaggcttca gtgtacagca accaaaatgg tagggaggtc ttgaagccaa tgagggattt 1680
 atagcatctt gaatagagag ctgcaaccca ccagggggca gagttgcact ttccaggct 1740
 ttttaggaag ctctgc当地 aatgtgatct gatcataggc aatttgc当地 ggaagaaaact 1800
 tccaaaaata tctaggtttgc当地 tcctcattt acaaatttgc当地 aacttgc当地 ctgtggaaagg 1860
 gaaggggttgc当地 cctcaaaaatgc当地 cacagcttgc当地 ctggccacag tggctcatgc当地 cgataatccc 1920
 agcaatttgc当地 aaagctgaggc caggaggatt acttggcc当地 agactggcc当地 atatagcaag 1980
 accccatctc当地 taaaaatttgc当地 ggc当地 tggccatgc当地 tattccctgc当地 tactcaggag 2040
 gttgaggttgg gaggatcact tgagccaga agttcaaggc tgcaatgagc catgattaca 2100
 ccacggcacttgc当地 acaacccttgc当地 tggccacagtg agaacgc当地 gac tcttaaaaaaa aaaaaa 2155

<210> 20
 <211> 491
 <212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1553276CB1

<400> 20

gccc~~at~~ggcc gcagccctgg cgctcg~~tg~~gc gggggc~~t~~c~~t~~tg tcggggc~~gg~~ tgctgccc~~c~~c~~c~~ct 60
 ctggagc~~g~~cg~~g~~ ctcc~~cg~~caat ataaaaagaa aatcacagac aggtg~~tt~~cc accactctga 120
 gtgctac~~at~~gt ggctg~~c~~tg~~c~~cc tcatggactt ggactcc~~gg~~ ggagcc~~t~~tct gtgcccc~~c~~ag 180
 ggc~~c~~agaata accat~~at~~gtct gcttgc~~cc~~ca gtgg~~t~~ggaa ctcttcaagg gcagg~~g~~att~~g~~ 240
 catcatat~~t~~tc atctat~~g~~aa~~g~~ cac~~t~~ac~~cc~~cc cag~~c~~tt~~g~~at~~g~~ta tctgcacata accaagg~~g~~ag 300
 ctaccaacat catctgc~~c~~c~~c~~ tgc~~cc~~gat~~gg~~ gcttg~~a~~c~~g~~tg catatcc~~a~~ag gactt~~g~~at~~g~~t 360
 gttccc~~gg~~cc~~g~~ gtg~~c~~catat~~g~~ atttagagga agatgc~~ag~~gc tgg~~t~~act~~g~~c tccctt~~gg~~gg 420
 ccatagg~~cc~~cc~~g~~ tgg~~t~~g~~c~~cc~~a~~ caacttg~~c~~tc caaatcc~~a~~gc tcctgag~~a~~aca ttaaagt~~c~~ac 480
 tt~~c~~ctgt~~c~~aa a 491

<210> 21

<211> 2101

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1702211CB1

<400> 21

cccac~~g~~cg~~t~~tc cg~~t~~tct~~g~~tc gaacc~~a~~g~~t~~tg taaggagaat ggagagag~~c~~a gtgag~~a~~gt~~g~~g 60
 agtcc~~gg~~gg~~g~~gt cctgg~~t~~c~~g~~gg~~g~~ gtgg~~t~~ct~~g~~tc tgctt~~c~~ct~~g~~cc atgc~~c~~c~~c~~act~~g~~ 120
 ggccc~~g~~aa~~g~~t tgctc~~a~~g~~c~~c~~t~~ct~~g~~ct gaagtaga~~c~~ca ccac~~c~~ct~~g~~gg~~g~~ tcgtgt~~g~~cg~~a~~ ggc~~cc~~gg~~g~~cagg 180
 tgg~~g~~c~~t~~g~~g~~aa gggcacagac cgc~~c~~tt~~g~~t~~g~~ta atgtctt~~t~~t~~c~~ gggcatt~~t~~cca tttgccc~~c~~agc 240
 cgc~~c~~act~~g~~gg~~g~~ cc~~c~~t~~g~~acc~~g~~gg~~g~~ tt~~c~~t~~c~~ag~~c~~cc cac~~a~~cc~~c~~ag~~c~~ acagcc~~c~~t~~g~~g gagg~~g~~gt~~g~~tc 300
 gggat~~g~~cc~~g~~ag cact~~g~~cg~~c~~cc ccaat~~g~~t~~g~~cc tacaagac~~g~~t ggagagcat~~g~~ aacagcag~~c~~a 360
 gattt~~t~~gt~~c~~c~~t~~ caac~~g~~gaaaaa cag~~c~~ag~~a~~at~~t~~ct tct~~c~~cg~~t~~tt~~c~~ agagg~~a~~ct~~g~~c ctgg~~t~~c~~c~~t~~ca~~ 420
 acgtctat~~g~~ ag~~c~~c~~a~~g~~t~~ct~~g~~ag gtc~~cc~~cg~~g~~ag ggtcc~~g~~gt~~g~~ag gccg~~t~~cat~~g~~ g~~t~~atgg~~g~~tc~~c~~c 480
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 <213> Homo sapiens

<220>
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<220>
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1717

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<211> 148
<212> PRT
<213> Cola

<300>
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<400> 33

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Trp Val Cys Leu Ala Lys Trp Glu Ser Gly Tyr Asn Thr Asp Ala		
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Thr Asn Tyr Asn Pro Gly Asp Glu Ser Thr Asp Tyr Gly Ile Phe		
65	70	75
Gln Ile Asn Ser Arg Tyr Trp Cys Asn Asn Gly Lys Thr Pro Gly		
80	85	90
Ala Val Asn Ala Cys His Ile Ser Cys Asn Ala Leu Leu Gln Asn		
95	100	105
Asn Ile Ala Asp Ala Val Ala Cys Ala Lys Arg Val Val Ser Asp		
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<210> 34

<211> 148

<212> PRT

<213> Colobus angolensis

<300>

<308> GenBank ID No: g1790967

<400> 34

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Lys Lys Leu Gly Leu Asp Gly Tyr Lys Gly Val Ser Leu Ala Asn		
35	40	45
Trp Val Cys Leu Ala Lys Trp Glu Ser Gly Tyr Asn Thr Asp Ala		
50	55	60
Thr Asn Tyr Asn Pro Gly Asp Glu Ser Thr Asp Tyr Gly Ile Phe		
65	70	75
Gln Ile Asn Ser Arg Tyr Trp Cys Asn Asn Gly Lys Thr Pro Gly		
80	85	90
Ala Val Asn Ala Cys His Ile Ser Cys Asn Ala Leu Leu Gln Asn		
95	100	105
Asn Ile Ala Asp Ala Val Ala Cys Ala Lys Arg Val Val Ser Asp		
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Pro Gln Gly Ile Arg Ala Trp Val Ala Trp Lys Lys His Cys Gln		
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Thr	Asn	Tyr	Asn	Pro	Gly	Asp	Glu	Ser	Thr	Asp	Tyr	Gly	Ile	Phe	
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Gln	Ile	Asn	Ser	Arg	Tyr	Trp	Cys	Asn	Asn	Gly	Lys	Thr	Pro	Gly	
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Asn	Ile	Ala	Asp	Ala	Val	Ala	Cys	Ala	Lys	Arg	Val	Val	Ser	Asp	
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Pro	Gln	Gly	Ile	Arg	Ala	Trp	Val	Ala	Trp	Arg	Asn	His	Cys	Gln	
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Asn	Arg	Asp	Val	Ser	Gln	Tyr	Val	Lys	Gly	Cys	Gly	Val			
								140		145					